X- Mathematics Assignment No-09 - Surface Area and Volume

M.C.Q.

Q1. The edge of a cube is 6 Cm. The length of the longest rod that can be kept inside the cube has the length

(i) $6\sqrt{3}$ Cm (ii) $12\sqrt{3}$ Cm (iii) 96 Cm (iv) 216 Cm

Q2. S.A of Cuboid = Area of four walls + x, the Value of x is

(i) lb (ii) 2lb (iii) lh (iv) 2lh.

Q3. If TSA of a Cube and its volume are equal then the edge of the Cube is

(i) 36 Units (ii) 216 Units (iii) 6 Units (iv) 24 Units

Q4. Three equal cubes are placed adjacently in a row. Find the ratio of T.S.A of the new cuboid to that of the sum of the surfaces areas of the three cubes.

(i) 2:3 (ii) 4:5 (iii) 9:7 (iv) 7:9

Q5 The diagonal of a cube is $\sqrt{27}$ Units, its edge is

(i) 3 Units (ii) 6 Units (iii) 9 Units (iv) $3\sqrt{3}$ Units.

Cont Pg-2

Q6. A solid cube of side 12 cm is cut into eight cubes of equal volume. The side of new cube is

(i) 12 cm (ii) 6 cm (iii) 3 cm (iv) 9 cm

Q7. A cuboidal vessel is 15 m long 6 m wide, how high must it be made to hold 360 m^3 of a liquid.

(i) 12 m (ii) 8 m (iii) 4 m (iv) 1 m

Q8. Total S.A. of a hollow cylinder is

(i) $2\pi(R^2-r^2)$ (ii) $2\pi(R^2-r^2)+\pi R^2$ (iii) $2\pi(r^2-R^2)+\pi r^2$

(iv) $2\pi(R+R)(R-r+h)$

Q9. The C.S.A of a cylinder is 660 sq. cm. If height of the cylinder is 15 cm, its radius is

(i) 7 cm (ii) 8 cm (iii) 9 cm (iv) 12 cm.

Q10. The C.S.A of a cylinder is 4400 cm^2 and the circumference of its base is 110 cm. The height of the cylinder is

(i) 60 cm (ii) 40 cm (iii) 20 cm (iv) 80 cm

ANSWERS		
(Q1) (i)	(Q5) (i)	(Q9) (i)
(Q2) (ii)	(Q6) (ii)	(Q10) (ii)
(Q3) (iii)	(Q7) (iii)	
(Q4) (iv)	(Q8) (iv)	